

Grade 5 Module 3 Application Problems

EngageNY  
&  
Eureka Math  
Grade 5  
Module 3  
Application Problems

(5.NF.1\*, 5.NF.2\*)

**Directions to the teacher:**

- Don't print this cover sheet. Only print the remaining pages.
- Each student will receive all the application problems in a single packet. Staple one of the lower corners...not the top corner.
- Each day, students will cut off the next application problem and glue into their math journal.

## Grade 5 Module 3 Application Problems

Lesson	Problem
1	15 kilograms of rice are separated equally into 4 containers. How many kilograms of rice are in each container? Express your answer as a decimal and as a fraction.
2	Mr. Hopkins has a 1 meter wire he is using to make clocks. Each fourth meter is marked off with 5 smaller equal lengths. If Mr. Hopkins bends the wire at $\frac{3}{4}$ meter, what fraction of the marks is that?
3	Alex squeezed 2 liters of juice for breakfast. If he pours the juice equally into 5 glasses, how many liters of juice will be in each glass? (Bonus: How many milliliters are in each glass?)
4	Leslie has 1 liter of milk in her fridge to drink today. She drank $\frac{1}{2}$ liter of milk for breakfast and $\frac{2}{5}$ liter of milk for dinner. How many liters did Leslie drink during breakfast and dinner? (Bonus: How much milk does Leslie have left over to go with her dessert, a brownie? Give your answer as a fraction of liters and as a decimal?)
5	A farmer uses $\frac{3}{4}$ of his field to plant corn, $\frac{1}{5}$ of his field to plant beans, and the rest to plant wheat. What fraction of his field is used for wheat?
6	The Napoli family combined two bags of dry cat food in a plastic container. One bag had $\frac{2}{3}$ kg. The other bag had $\frac{3}{4}$ kg. What was the total weight of the container after the bags were combined?
7	None
8	Jane found money in her pocket. She went to a convenience store and spent $\frac{1}{4}$ of her money on chocolate milk, $\frac{2}{5}$ of her money on a magazine, and the rest of her money on candy. What fraction of her money did she spend on candy?
9	Hannah and her friend are training to run in a 2 mile race. On Monday, Hannah runs $\frac{1}{2}$ mile. On Tuesday, she runs $\frac{1}{5}$ mile further than she ran on Monday. a. How far did Hannah run Tuesday? b. If her friend ran $\frac{3}{4}$ mile on Tuesday, how many miles did the girls run in all on Tuesday?
10	To make punch for the class party, Mrs. Lui mixed $1\frac{1}{3}$ cups orange juice, $\frac{3}{4}$ cup apple juice, $\frac{2}{3}$ cup cranberry juice, and $\frac{3}{4}$ cup lemon-lime soda. Mixed together, how many cups of punch does the recipe make? (Bonus: Each student drinks 1 cup. How many recipes does Mr. Lui need to serve her 20 students?)

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11	Meredith went to the movies. She spent $\frac{2}{5}$ of her money on a ticket and $\frac{3}{7}$ of her money on popcorn. How much of her money did she spend? (Bonus: How much of her money is left?)
12	<p><b>Problem 1</b> Max's reading assignment was to read <math>15\frac{1}{2}</math> pages. After reading <math>4\frac{1}{3}</math> pages, he took a break. How many more pages does he need to read to finish his assignment?</p> <p><b>Problem 2</b> Sam and Nathan are training for a race. Monday, Sam ran <math>2\frac{3}{4}</math> miles, and Nathan ran <math>2\frac{1}{3}</math> miles. How much farther did Sam run than Nathan?</p>
13	Mark jogged $3\frac{5}{7}$ km. His sister jogged $2\frac{4}{5}$ km. How much farther did Mark jog than his sister?
14	<p>For a larger order, Mr. Magoo made <math>\frac{3}{8}</math> kg of fudge in his bakery. He then got <math>\frac{1}{6}</math> kg from his sister's bakery. If he needs a total of <math>1\frac{1}{2}</math> kg, how much more fudge does he need to make?</p> <p>During lunch, Charlie drinks <math>2\frac{3}{4}</math> cup of milk. Allison drinks <math>\frac{3}{8}</math> cup of milk. Carmen drinks <math>\frac{1}{6}</math> cup of milk. How much milk do the 3 students drink?</p>
15	None
16	<i>Application Problem is the Problem Set</i>